

INDIAN JOURNAL of PHYSICS

Vol. 81 • No. 5 & 6 • May & June 2007

CONTENTS

Front Title	513
Advisory Board and Editors	515-516
From Editor's Desk	517
Front Contents	519-520

Astrophysics, Atmospheric & Space Physics

A two-dimensional model study of latitudinal, seasonal and solar activity variation in transition height in the *D*-region

K DURGA PRASAD, T S N SOMAYAJI, P APPALA NAIDU, D N MADHUSUDHANA RAO, T ARUNAMANI AND M INDIRA DEVI	521-530
--	---------

Unusual behavior of *D*-region ionization time at 18.2kHz during seismically active days

S CHAKRABARTI, S SASMAL, M SAHA, R KHAN, D BHOUMIK AND S K CHAKRABARTI	531-538
---	---------

Condensed Matter & Materials Physics

Studies on solid polymer electrolyte based on PEO/PVC blends

S RAJENDRAN, RAVISHANKER BABU AND K KANIMOZHI	539-545
---	---------

Growth and characterization of Cu_3N films deposited by dc magnetron sputtering

K VENKATA SUBBA REDDY, P SREEDHARA REDDY, A KLEIN, G VENKATA RAO AND S UTHANNA	547-554
---	---------

Structural and optical properties of nanostructured PbS thin films
chemically deposited at room temperature

A U UBAL, R B MANKAR, A S DARYAPURKAR, R R RAUT AND
V S SANGAWAR 555–565

Effect of copper interlayer on thermally deposited polycrystalline
Ge-thin film transistors fabricated on glass substrates

P GOGOI, K KONWAR AND B BAISHYA 567–572

General & Interdisciplinary Physics

Equations of state and thermoelastic properties of the Earth's
lower mantle

PREETI BHADAURIYA 573–584

Particle Physics

The dual gluon propagator and confinement potential in SU(2) QCD

HEMWATI NANDAN 585–595

The effect of both Z and Z'-mediated flavor-changing neutral currents
on $B_s \rightarrow \mu^+ \mu^-$ decay

S SAHOO, L MAHARANA AND B R BEHERA 597–605

Deep inelastic neutrino scattering and fractal models of nucleon
structure functions at small x

D K CHOUDHURY AND RUPJYOTI GOGOI 607–614

Notes

Superposition model analysis for the zero-field splitting of Mn^{2+} in
 $La_2Co_3(NO_3)_{12} \cdot 24H_2O$

MANU JAIN 615–618

The study of interplay of charge density wave and spin density
wave in cuprate systems

S K PANDA AND G C ROUT 619–626

Forthcoming Publications 627–628

Notes for Contributors 629–632

Our Special Publications 633–634